



JUKI

JUKI CORPORATION

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"Guide for the JUKI exhibits at Texprocess 2011"



JUKI is happy to announce that we will be running a booth at Texprocess 2011 to be held in Frankfurt am Main, Frankfurt in Germany for four days from the 24 to 27 of May 2011.

Under the exhibition concept "Be the best in CS - New Edge Solution for Your Success" (JUKI's proposal of novel ideas for success), we will be showing a total of 55 models; 43 will be state-of-the-art industrial sewing machines and 12 will be household sewing machines. Among the 55 models, approximately half of them are new.

The JUKI booth will occupy 594 m² in Hall 5-1 of the venue. The booth will consist of six different zones.

Outline and major models to be shown in the respective zones are as follows:

A. Intelligent sewing system zone (ISS zone)

This zone introduces JUKI's system products comprised of the data analysis software (IA-1) and the data measuring terminals (IT series), which contribute to the realization of an actual sewing shop floor, enabling a visual check of the production status.

B. Apparel machines zone

This zone introduces the lineup of JUKI's cutting edge models of sewing machines provided with excellent responsiveness to diversified materials and higher flexibility, which are essential features for sewing outerwear.

C. Knit sewing machines zone

This zone introduces the range of products which contribute to the further increased quality and productivity of knitwear. In this zone, the MF-7500/-7900 flat seamer, top and bottom coverstitch machine will also be introduced for reference.

D. Sewing machines for heavy-weight materials zone

This zone introduces sewing machines, including the state-of-the-art unison-feed sewing machine and the computer-controlled cycle machine which promise higher reliability and sewing capabilities, intended for heavy-weight materials such as those used for car seats, furniture, bags and pouches.

E. Sewing machines for jeans zone

This zone introduces the latest models of specialized sewing machines and automatic sewing machines which have been developed through a careful and thorough analysis of each sewing process involved in jeans and casual pants.

F. Household sewing machines zone

This zone introduces 12 models of household sewing machines, including the latest four computer-controlled machines under two different series. JUKI's household machines incorporating well-established technology help broaden the sphere of household needlework.

-----Major models to be exhibited -----

Industrial sewing machines

◆ ISS <Intelligent Sewing System>

●Product overview

With the motto, total achievement of "CS" (Customer Satisfaction), JUKI proposes its IT-based production management tool called "ISS" (Intelligent Sewing System). This system enables the real-time review of production data through network-connected sewing machines in the sewing production line, thereby facilitating daily progress management and achieving early detection of bottlenecks which may hinder production.

●Features

IA-1 (Intelligent Application)

- ① With this software, the actual quantity of products is continuously monitored to enable a visual check of the progress/delay status of the production line by means of visual signal lights (red, blue and yellow)
- ② With this software, measurement of the operating ratio and sewing speed of each sewing machine is enabled.
- ③ With this software, processing time of each sewing process can be measured to facilitate checking of the production line balance.
- ④ This software offers assistance in finding solutions to various problems/challenges faced by garment manufacturing companies, such as the achievement of a quick response to small-lot production and quick delivery, thereby backing up the apparel industry to build a bright and valuable future.

- ⑤ With this software, real-time monitoring of production data through network-connected sewing machines in the sewing production line can be carried out, thereby facilitating daily progress management and achieving early detection of bottlenecks which may hinder production.

IT Series (Intelligent Terminal)

- ① By connecting the terminal to the sewing machine, direct measurement of the sewing workshop production data is enabled. Data measurement can be done automatically or manually simply by pressing a button.
- ② With the IT Series, the target and actual numbers of pieces of products can be displayed on the terminal. This helps improve the operators' sense of purpose.

◆ AB-1351 <1-needle, automatic belt-loop attaching machine>

●Product overview

The AB-1351 is best suited to the sewing of belt loops on slacks and casual pants. This automatic sewing machine sews various kinds of belt loops with flexibility by utilizing the seven different sewing patterns it incorporates.

●Features

- ① Since the AB-1351 uses the highly operable new operation panel (IP-420), it is possible for the operator to change the sewing shape and sewing size of belt loops, change the sewing pattern, and change detailed settings of the sewing position, etc. through the operation panel with ease. In addition, cycle sewing can also be set.
- ② Access to data previously stored in the memory of the operation panel is possible, thus shortening the setup time when re-using the same data as that stored in the memory. The operator needs only to place a garment body on the sewing machine. He/she therefore has idle time while the sewing machine is sewing belt loops on the garment body. This means that the operator is then able to attend to two units of the AB-1351 at one time by placing another garment body on one machine while the other machine is engaged in sewing, thereby contributing to further increased productivity.
- ③ In the case of standard sewing machines (general-purpose sewing machines), operator skill is required to sew belt loops exactly according to specified sewing dimensions and seam allowances (the allowance to be determined taking the belt thickness or other influencing factors into account) with consistency. On the other hand, the AB-1351 has adopted JUKI's unique twin-drive type belt-loop feeder mechanism. The belt-loop pulling clamp and the belt-loop draw-out roller operate in sync with each other, thereby ensuring accurate belt loop lengths even when using soft and elastic materials. With this mechanism, even an inexperienced operator is allowed to carry out belt-loop attaching with consistency while maintaining adequate seam allowances as in the case of skilled operators, thereby producing beautifully-attached belt-loops with no variation in quality.

◆AMS-210ENSS1306SA/7450

<Computer-controlled cycle machine with an input function (for embroidery)>

●Product overview

The AMS-210EN1306 has been developed for embroidering names (alphabetic/Japanese characters) with single color thread.

The sewing machine is a computer-controlled cycle machine provided with an input function. Once the operator places a piece of material on the sewing machine, the sewing machine carries out the entire sequence of embroidering according to the preliminarily input name data from start to the thread trimming under finish in a fully-automatic manner. With this function, the machine enables even an inexperienced operator to beautifully and speedily embroider names with accuracy.

●Features

- ① The AMS-210EN1306 is the first embroidery machine in the sewing machine industry which achieves the highest sewing speed of 2,000 sti/min to promise higher productivity.
- ② The thread tension controller with its rotary tension mechanism is adopted for the machine to promise beautifully finished name (alphabetic/Japanese characters) embroideries with a lower thread tension
- ③ The USB-supporting operation panel IP-420 with input functions has been adopted for the machine. (Various kinds of storage media can be used for reading/writing data by means of a card reader.)
Since the name embroidery shape is displayed on the color LCD screen, the operator can carry out sewing while visually confirming the finished shape.
- ④ It is possible to input data on two or more name embroideries at a time. Since the sewing machine stops every time it finishes the embroidering of one name, it can sew different name embroideries continuously.

◆PM-3 <Embroidery data creation software>

●Product overview

This software is developed exclusively for creating embroidery data. With the software, the operator is able to enter/edit new/existing data as if he/she were operating word processor software. The font data can be converted to the embroidery data.

◆MF-7500 Series <High-speed flat-bed, top and bottom coverstitch machine>

●Product overview

The well-reputed high-speed, flat-bed, top and bottom coverstitch machine MF-7700 Series has been remodeled to the MF-7500 Series. This sewing machine with a thread trimmer is provided with a direct-drive motor and, in addition, with many different functions including the improved looper-thread entanglement prevention mechanism and oscillating thread tension controller unit.

The MF-7500 Series is a high-grade model with excellent functions and performance suited not only to the hemming of sleeves and bottoms of knit shirts and T shirts, as well as the covering process of

knitwear, but also to the attaching of tape on underwear, briefs and knitwear.

●Features

- ① As compared with the conventional model, the changed model has a bed shape which allows the operator to handle the material on the machine while placing his/her hands closer to the needle entry.
- ② The machine is provided with enhanced cloth guides. One unit of the machine can therefore be used for many different hemming and covering processes utilizing those cloth guides.
- ③ The machine with a thread trimmer has adopted the direct-drive motor to increase ease of setup, thereby helping save energy.
- ④ The type of seam can be selected according to the application and material simply by changing the thread path and adjusting the thread tension, i.e., soft-to-touch seams for innerwear and high-grade well-tensed seams for outerwear.
- ⑤ The new mechanism, looper-thread entanglement preventing function, is adopted. This function prevents looper thread from entangling the camshaft to help increase work efficiency and reduce operator fatigue.
- ⑥ The machine is provided as standard with the feed dog inclination adjusting mechanism, needle-entry longitudinal position adjusting mechanism and micro-lifter mechanism. With these mechanisms, the machine is able to handle difficult-to-sew materials more easily.

◆MF-7900 Series <High-speed, cylinder-bed, top and bottom coverstitch machine>

●Product overview

The well-reputed high-speed, flat-bed, top and bottom coverstitch machine MF-7800 Series has been remodeled to the MF-7900 Series. This sewing machine with a thread trimmer is provided with a direct-drive motor and, in addition, with many different functions including the improved looper-thread entanglement prevention mechanism and oscillating thread tension controller unit.

The MF-7900 Series is a high-grade model with excellent functions and performance suited to the hemming and covering processes of T-shirts and polo shirts, and the covering processes of fleece wear, polo shirts, training wear, sportswear and knit outerwear

●Features

- ① The machine has adopted the "new looper thread pulling cam mechanism" which simplifies the threading procedure.
- ② The machine is provided with enhanced cloth guides to allow a single unit of the machine to support many different hemming and covering processes utilizing those cloth guides.
- ③ The machine with a thread trimmer has adopted a direct-drive motor to increase ease of setup, thereby helping save energy.
- ④ The type of seam can be selected according to the application and material simply by changing the thread path and adjusting the thread tension, i.e., soft-to-touch seams for innerwear and high-grade well-tensed seams for outerwear.
- ⑤ The looper-thread entanglement preventing function of the new mechanism is adopted. This function prevents looper thread from entangling the camshaft to help increase work efficiency and reduce

operator fatigue.

- ⑥ Optimization of the thread take-up mechanism and thread path route enables sewing with a lower tension, thereby broadening the range of thread types applicable to the machine.

◆ **LU-2810A-7** <1-needle, unison-feed, lockstitch machine with a large hook and an automatic thread trimmer>

● **Product overview**

The machine head is re-designed to have a high & long arm. The machine with a thread trimmer has adopted the direct-drive motor system. The LU-2810A-7 is a unison-feed sewing machine which is suited to the sewing of car seats, sofas and bags, and which has significantly improved "workability" that is required for sewing large-sized material.

● **Features**

- ① A newly developed high & long arm has been adopted. The arm provides a longer distance from the machine arm to the needle as compared with the conventional model, to allow the operator to handle the sewing material with ease, thereby significantly improving workability.
- ② The area from the machine arm to the needle, as wide as "346 mm x 126 mm," is secured to increase workability as compared with the conventional model.
- ③ The machine with a thread trimmer has adopted the high-torque direct-drive motor which has adequate capability to cope with heavy-weight materials.
- ④ A newly developed tank-type automatic oiling system has been adopted. The remaining oil quantity meter is installed on the front surface of the machine head. It is now possible to oil the machine head without tiling it.
- ⑤ The rear face of the machine head has been redesigned, and is now flat through the eliminating of projecting and recessing parts. As a result, attachments such as the auxiliary feeder can be installed on the machine with ease.

◆ **MEB-3810** <Computer-controlled eyelet buttonholing machine>

● **Product overview**

The newly developed computer-controlled eyelet buttonholing machine is intended for jeans and cotton pants. The machine has the high-speed performance to run at the highest sewing speed of 2,500 sti/min while achieving decreased vibration and noise. In addition, it has adopted the direct-drive system which directly connects the compact AC servomotor to the main shaft to offer increased responsiveness.

● **Features**

- ① The machine achieves the highest sewing speed of 2,500 sti/min, as well as reduced vibration and noise.
- ② Two different thread trimmers are prepared, i.e., the overall thread trimmer and the needle thread trimmer, to respond to customer needs.

- ③ The surface on which the material is placed is designed to be flat to facilitate placement of the material on the machine.
- ④ The air-driven buttonhole knife has been adopted to increase operating speed and quick responsiveness as compared with the conventional type knife, thereby contributing to increased productivity.
- ⑤ The arm shape has been changed and the thread clamp mechanism has been improved to achieve easy observation of the needle entry.

Household sewing machines

◆ Exceed Series (HZL-F300, -F400, -F600)

<Computer-controlled household sewing machines>

● Product overview

The "Exceed" series household sewing machine is an upgraded full-sized computer-controlled machine using the technologies and functions of industrial sewing machines. The name "Exceed" represents the machine's performance level exceeding the conventional performance level of household sewing machines.

The machine is provided with a "longer distance from machine arm to needle entry as compared with the conventional model", as well as having lots of new features including "box feed", "controller with an automatic thread trimmer", "sensor-type buttonholing" and "quilting" to achieve improved seam quality and added comfort of use. JUKI is proudly introducing the "Exceed" series as the best machine for household needle work.

● Features

- ① The "box feed" has a rectangular (box-like) motion locus, while the feed dog of the conventional household sewing machine performs an elliptic motion. The feed dog which performs the rectangular motion comes in contact with the material for a longer time and over a larger area. As a result, the feed dog can feed light- to heavy-weight materials without material-clogging/stitch gathering.
- ② The "controller with an automatic thread trimmer" has the capability of activating the thread trimmer when the operator depresses the controller pedal with his/her heel, which is widely adopted among industrial sewing machines. This thread trimming system allows the operator to carry out sewing rhythmically and comfortably without removing hands from the material being sewn.
- ③ The "sensor type buttonholing" is able to sew buttonholes while preventing material-clogging / stitch-gathering due to the type of material and multi-layered parts of the material, thereby substantially improving seam quality.
- ④ The HZL-F300 is the basic model in the Exceed series and is best suited to household needlework, which includes sewing dresses, and interior ornaments according to the customers' interests.
- ⑤ The HZL-F400 is provided with an increased number of quilt patterns. It is also equipped with many kinds of presser feet. In addition, it is provided as standard with a knee lifter lever. All of these features allow the machine to be used for sewing quilts.
- ⑥ The HZL-600F is the highest model of the Exceed series for sewing quilts. It is provided with a random

stitch function and a stitch dial for changing the stitch length and width during sewing, as well as being provided as standard with various quilting presser feet. All of these features and specifications of the machine are best suited to the sewing of quilts. This is the sewing machine for quilt lovers who want to sew higher quality quilts.

◆HZZ-G Series (HZZ-G110, -G210)

<Computer-controlled household sewing machine>

●Product overview

The HZZ-G series is the best full-sized computer-controlled sewing machine for customers who intend to change their current sewing machine to an upgraded one.

●Features

- ① Thanks to the adoption of the "box feed", the machine is able to feed light- to heavy-weight materials without material-clogging/stitch-gathering.
- ② The machines have adopted simple-to-use operating parts and operating buttons to allow inexperienced users to use the machine with ease.
- ③ The HZZ-G110 is provided with as many as 180 different sewing patterns in total, including utility patterns, buttonholing patterns, decorative sewing patterns and alphabetic character patterns.
- ④ The HZZ-G210 is provided with an automatic thread trimmer. The other features are the same as with those of the HZZ-G110.

◆HZZ-K Series (HZZ-K65, -K85)

<Computer-controlled household sewing machine>

●Product overview

The HZZ-K series is a compact-in-size computer-controlled household sewing machine which allows even inexperienced users to use with ease.

●Features

- ① The space between the machine arm and the needle entry is widened to achieve increased usability and operability as compared with the conventional model.
- ② The HZZ-K65 is provided with 20 different sewing patterns, including in principle utility patterns and decorative sewing patterns which are frequently used.
- ③ The HZZ-K85 is able to sew alphabetic/Japanese characters in addition to the sewing patterns provided by the HZZ-K65. Since the machine is provided with memory, it is able to temporarily save a combination of alphabetic characters or decorative patterns in its memory for later sewing.

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